U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration Form Approved OMB No. 44-R1387

## MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

	SECTION I	
MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.
Sherwin Incorporated	the control of the co	(213) 261=0251
ADDRESS (Number, Street, City, State,	and ZIP Code	and interpolation to the contraction of the contraction of the contract of the
5007 E. Washington B	Blvd. Los Angeles. Ca. 90040	
5007 E. Washington B CHEMICAL NAME AND SYNONYMS N/A	Blvd. Los Angeles, Ca. 90040	Oxide No. 1. Dublichek No. 1

**SECTION II - HAZARDOUS INGREDIENTS** TLV TLV PAINTS, PRESERVATIVES, & SOLVENTS ALLOYS AND METALLIC COATINGS (Units) (Units) BASE METAL N/A PIGMENTS Iron Oxide 1-3% ALLOYS CATALYST METALLIC COATINGS VEHICLE FILLER METAL PLUS COATING OR CORE FLUX SOLVENTS Aliphatic Solvent OTHERS ADDITIVES OTHERS TLV (Units) HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES (Spray can packaging would include fluorocarbon or hydrocarbon propellant. Fluorecarbon propellant - evoid open flames and welding arcs, as thermal decomposition can produce hydrogen chloride and phosgens. Hydrocarbon propellant is extremely flammable.)

	SEC1	TION III - P	HYSICAL DATA	
BOILING POINT (°F.)	356-510 D.	F.	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	0.8086
VAPOR PRESSURE (mm Hg.)	77 D. F. i		PERCENT, VOLATILE 'BY VOLUME (%)	99%
VAPOR DENSITY (AIR=1)		6.2	EVAPORATION RATE	0.1
SOLUBILITY IN WATER		Nil		
APPEARANCE AND ODOR	Water	Color		

FLASH POINT (Method used) TCC 154 D. F.	FLAMMABLE LIMITS	1.0%	7.0%
EXTINGUISHING MEDIA CO2 & Dry Chemical			
special fire fighting procedures: in case of fire involving this mat	erial, do not enter the	area withou	t proper
equipment, including self contained			
UNUSUAL FIRE AND EXPLOSION HAZARDS	and the state of the		en de la companya de

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(Continued on reverse side)

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	SECTION V	- HEAL	TH HAZARD DATA
THRESHOLD LIMIT VALUE	375 ppm (detern	nined on	basis of related hydrocarbons)
EFFECTS OF OVEREXPOSURE May cause eye irrita	ation: may caus	e skin	irritation on prolonged or repeated skin
contact. Many be harm			
	lush eyes with		ster for at least 15 minutes; if irritation
			sive skin contact, wash skin with soap and
			g and wash before reuse. If swallowed,
do not induce vomiti	lng- call a phy	vsician.	
Section to the second section of the section	SECTION	IVI - RE	ACTIVITY DATA
STABILITY UNSTABL	LE CONTROL OF THE CON	NOITION	s TO AVOID
STABLE		an en en en en en en ger gjitte <b>(M</b> . Seg)	The state of the s
INCOMPATABILITY (Materials i	strong oxidizi	lng agen	ts.
HAZARDOUS DECOMPOSITION Incomplete combusti	PRODUCTSNormal Lon can form ca	combu <b>a</b>	tion forms carbon dioxide and water vapor.
HAZARDOUS	V OCCUR	en lagren natuuten Lagren til	CONDITIONS TO AVOID
POLYMERIZATION	LL NOT OCCUR		

SECTION VII - SPILL OR LEAK PROCEDURES
steps to be taken in case material is released or spilled Extinguish all sources of ignition in vicinity of spill or released vapors. Clean
up spills as soon as possible, observing precautions in Section IX.
· · · · · · · · · · · · · · · · · · ·
WASTE DISPOSAL METHOD A THE REPORT OF THE PROPERTY OF THE PRO
Absorb large spilks with clay, diatomaceous earth.
and the second of the second o

	SECTION VIII - SPECIAL PROTECT	ION INFORMATION
RESPIRATORY PI	ROTECTION (Specify type)	
VENTILATION	LOCAL EXHAUST	. SPECIAL
	MECHANICAL (General)	OTHER
Neoprene or or or the fect	protective gloves for repeated wear	chemical-safety goggles.

	SECTION IX SPECIAL PRECAUTIONS
Avoid contact wi	ken in handling and storing ith eyes and skin. Avoid breathing high concentrations of vapors of
Book Barrier Milator Progrid and Branco Marcoll (1995) and a colour Nobel and Studies (1995) and the	cool, well ventilated area away from sources of ignition.
OTHER PRECAUTIONS	

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While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Shery incorporated makes no warranty with respect thereto and disclaims all liability from reliance thereon.



5007 EAST WASHINGTON BOULEVARD

LOS ANGELES, CALIFORNIA 90040

Nov. 17, 1978

Mr. M. J. Veneroso Dept. Cl-725 (52-11) Douglas Aircraft Company 3855 Lakewood Blvd. Long Beach, CA. 90846

Dear Mr. Veneroso:

In reference to your letter, reference Cl-725-235, the following information is submitted for our products: DUBL-CHEK Black Oxide No. 1, and DUBL-CHEK D-100 Developer. At the present time these products are available in two different propellants, Hydrocarbon (Isobutane) and Fluorocarbons (Freon).

Hydrocarbon DOT Shipping Name Black Oxide No. 1 Compressed Gas N.O.S. Flammable Gas DPM 5174 \_\_\_\_ Black Oxide No. 1 Fluorocarbon Compressed Gas N.O.S. Non-Flammable Gas D-100 Developer Hydrocarbon Compressed Gas N.O.S. Flammable Gas Fluorocarbon Compressed Gas N.O.S. D-100 Developer Non-Flammable Gas These are classed as ORM-D materials Hydrocarbon Flammable Gas Fluorocarbon Non-Flammable Gas D-100 Developer Pressures are: Black Oxide No. 1 Hydrocarbon 70 D.F. 31 lbs. 130 D.F. 60 lbs. Fluorocarbon 70 D.F. 60 lbs.

130 D.F. 110 lbs.

DUBL-CHEK D-100 Hydrocarbon 70 D.F. 31 lbs.

130 D.F. 60 lbs.

Fluorocarbon 70 D.F. 44 lbs. 130 D.F. 84 lbs.

Propellant Names: Hydrocarbon--Isobutane

Fluorocarbon-Dichlorodifluoromethane

Container Capacity: 24 cubic inches Can is a Spratainer DOT-2Q made by

Crown Cork & Seal with a bursting pressure of 220

p.s.i.g.

I.A.T.A. Restricted Article # Hydrocarbon--Isobutame 961 Dichlorodifluoromethane 587

Attached are copies of our Materials Safety Data Sheets for your records.

Sincerely,

Sherwin Incorporated

All All Minam

Dale D. Winans

Office Manager